No.

9600087

# THIR UNIVERD STRAVES OF AMERICA

TO) ALL, TO) WHOM: THESE; PRESENTS: SHALL, COME;;

Agripro Seeds, Inc.

Migrens, there has been presented to the

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO'S, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS GERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PILING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE URPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT AT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'W88-039'

In Testimonn Wherevi, I have hereunto set my hand and caused the seal of the Hant Harietu Hrotection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of March in the year of our Lord one thousand nine hundred and ninety-six.

Allest:

Mosho A Fanton

Commissioner Plant Variety Protection Office Syricultural Marketing Service California Exerctary of Syriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 IS U.S.C. 552al.

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANTIST				
	(as it is to appear on the Cartificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
-Agrinea-S	foods Inc. Hy hair Tall	DC -		W88-039
-valuate 2	Monsa	nto Compositi	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	<del>Seeds, Inc.</del> HybriTech Monsai Cl	-M DI Jun 190	18	
4. ADDRESS (Street and No	o., or R.F.D. No., City, State, and ZIP Code, and Co	untry)	5. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY
6700 Anti	icah		913-384-4940	PVPC NUMBER
6700 Anti P.O. Box			913-304-4340	9600087
	Mission, Kansas 66201-13	62	6. FAX (include area code)	F DATE
0		<del>-</del>		<u>t</u> 1:
		•	913-384-0208	* 154 C 14, 1155
7. GENUS AND SPECIES NA	ME	8. FAMILY NAME (Botan)	ical)	FIUNG AND EXAMINATION FEE
Triticum	aestivum	Gramine	ae	F = -4
9. CROP KIND NAME (Comm		•	E DATE	
				* KEP 14 1655
	Winter Wheat	******		E CERTIFICATION FEE:
10. IF THE APPLICANT NAMI Corporati	ED IS NOT A "PERSON", GIVE FORM OF ORGANIZ	ZATION (corporation, partnersh	ip, association, etc.) (Common name)	5 200.00
11. IF INCORPORATED, GIVE			12. DATE OF INCORPORATION	V ) (L14 ) L
Delaware	at made virtibut		June 1994	° 1_11_(1/1
	A A A STATE OF THE			AL TO ENJOYS 5
	F APPLICANT REPRESENTATIVE(S), IF ANY, TO SI			14. TELEPHONE (include area code)
Robert Br		Unrist	Second Street	7 <del>-970-532-3721</del> 316755 7 <b>0</b> 7
P.O. Box	econd Street OR	Rertho	ud, CO 80513	16. FAX (include area code)
	Colorado 80513	Mark J.	Messmer )	9 <del>70-532-2035</del> -
	<u> </u>	HybriTect	oth Mexidian (	3167550072
16. CHECK APPROPRIATE BO	OX FOR EACH ATTACHMENT SUBMITTED (Follow	instructions desired the	LKS 67204/ / (2	mail: Mark, J. Messm
b. A Exhibit B. Staten	and Breeding History of the Variety	Car	m 01 Jun 1998	Monsanto. Con
	tive Description of the Variety	Cg,	1 01 301C 1-148	
	onal Description of the Variety			
· _v				
e. 🗹 Exhibit E. Statem	nent of the Besis of the Applicant's Ownership			
	nent of the Basis of the Applicant's Ownership (2,500 viable untreated seeds or, for tuber propaga	ited varieties verification that ti	issue culture will be deposited and maintain	ed in a public repository)
f. Voucher Sample				ed in a public repository)
f. Voucher Sample of the sampl	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8	the United States" (Mail to PV	(PO) A CLASS OF CERTIFIED SEED?  See Section	
f.  Voucher Sample ( g.  Filing and Examin 7. DOES THE APPLICANT SP  L. YES (If "yes," ans	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO #1 "no," go	(PO) A CLASS OF CERTIFIED SEED?  See Section to item 201	on 83(a) of the Plant Variety Protection Act)?
f.  Voucher Sample ( g.  Filing and Examin 7. DOES THE APPLICANT SP  L. YES (If "yes," ans	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO #1 "no," go	(PO) A CLASS OF CERTIFIED SEED?  See Section to item 201	
f. Voucher Semple ( g. X Filing and Examin 7. DOES THE APPLICANT SP L YES (If "yes," and 8. DOES THE APPLICANT SP GENERATIONS?	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO #1 "no," go	(PO) A CLASS OF CERTIFIED SEED?  See Section to item 201	OF PRODUCTION SEYOND SREEDER SEED?
f. Voucher Sample ( g. X Filing and Examin  7. DOES THE APPLICANT SP  L YES #f "yes," ans  8. DOES THE APPLICANT SP  GENERATIONS? L YES  Q. HAS THE VARIETY OR A	(2,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED INDO.  HYBRID PRODUCED FROM THE VARIETY BEEN R	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A  NO BI "no," go D AS TO NUMBER OF  19.  ELEASED, USED, OFFERED FO	POJ  A CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  Through the section of the section	OF PRODUCTION BEYOND BREEDER SEED?
1. Voucher Sample ( g. X Filing and Examin  7. DOES THE APPLICANT SP  L YES (If "yes," ans  8. DOES THE APPLICANT SP  GENERATIONS?  L YES  Q. HAS THE VARIETY OR A II  YES (If "yes," giv.	(2,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below) PECIFY THAT SEED OF THIS VARIETY BE UMITED NO CONTROL OF THIS VARIETY BE UMITED NO CONTROL OF THE VARIETY BEEN RESERVED PRODUCED FROM THE VARIETY BEEN RESE	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO BY "no," go D AS TO NUMBER OF 19. ELEASED, USED, OFFERED FO	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR I	OF PRODUCTION SEYOND SREEDER SEED?  ED
1. Voucher Sample ( g. X Filing and Examin 7. DOES THE APPLICANT SP L. YES (If "yes," ans 8. DOES THE APPLICANT SP GENERATIONS? L. YES Q. HAS THE VARIETY OR A II X YES (If "yes," give	(2,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED INDO.  HYBRID PRODUCED FROM THE VARIETY BEEN R	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO BY "no," go D AS TO NUMBER OF 19. ELEASED, USED, OFFERED FO	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR I	OF PRODUCTION SEYOND SREEDER SEED?  ED
f. Voucher Sample ( g. X Filing and Examin  7. DOES THE APPLICANT SP L YES (If "yes," ans  8. DOES THE APPLICANT SP GENERATIONS? L YES   70. HAS THE VARIETY OR A  YES (If "yes," giv.  Hybrid ma-	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD B'swer items 18 and 19 below!  PECIFY THAT SEED OF THIS VARIETY BE UMITED TO NO CONTROL OF THIS VARIETY BEEN REPORTED FROM THE VARIETY	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO BY "no," go D AS TO NUMBER OF  ELEASED, USED, OFFERED FO I NO I all I X Sold in be furnished with application a	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES' TO ITEM 18, WHICH CLASSES  J FOUNDATION J REGISTER OR SALE, OR MARKETED IN THE U.S. OR I	OF PRODUCTION BEYOND BREEDER SEED?  ED
f. Voucher Sample of g. X Filling and Examin  7. DOES THE APPLICANT SP  L YES ## "yes," and  8. DOES THE APPLICANT SP  GENERATIONS?  L YES ##  O. HAS THE VARIETY OR A II  YES ## "yes," give  Hybrid ma-  1. The applicant(s) declare the applicable, or for a tuber p	12,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below!  PECIFY THAT SEED OF THIS VARIETY BE LIMITED NO  HYBRID PRODUCED FROM THE VARIETY BEEN Representation of countries and dates!  The names of countries and dates!  The variety will be deposited to the variety will be deposited to the variety will be deposited.	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO BH "no," go D AS TO NUMBER OF 19. ELEASED, USED, OFFERED FO I NO I all X Sold in be furnished with application a d in a public repository and mail	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES TO ITEM 18, WHICH CLASSES  J FOUNDATION J REGISTER OR SALE, OR MARKETED IN THE U.S. OR ITEM AUGUST 1995 in the and will be replenished upon request in accountained for the duration of the certificate.	OF PRODUCTION BEYOND BREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. X Filing and Examin 7. DOES THE APPLICANT SP. YES If "yes," and 8. DOES THE APPLICANT SP. GENERATIONS?  [YES X YES If "yes," give Hybrid Machine the applicant(s) declare the applicable, or for a tuber p. The undersigned applicant.	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD B'swer items 18 and 19 below!  PECIFY THAT SEED OF THIS VARIETY BE UMITED TO NO CONTROL OF THIS VARIETY BEEN REPORTED FROM THE VARIETY	the United States" (Mail to PV Y VARIETY NAME ONLY, AS  NO BY "no." go D AS TO NUMBER OF  19.  ELEASED, USED, OFFERED FO  1 a ] ] X SO ] d i in be furnished with application a d in a public repository and ma or tuber propagated plant varie	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF "YES" TO ITEM 18, WHICH CLASSES  The Foundation Register OR SALE, OR MARKETED IN THE U.S. OR ITEM AUGUST 1995 in the account of the certificate.  August 1995 in the certificate, or the duration of the certificate.  August 1995 in the certificate, or the duration of the certificate.	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. X Filling and Examin 7. DOES THE APPLICANT SP. L. YES III "YES," and 8. DOES THE APPLICANT SP. GENERATIONS? L. YES X 9. HAS THE VARIETY OR A II YES III "YES," give Hybrid mac. 1. The applicant(s) declare the applicable, or for a tuber p. The undersigned applicant(s) Section 41, and is entitled to	12,500 visible untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED THAT SEED OF THIS VARIETY BE LIMITED NO  HYBRID PRODUCED FROM THE VARIETY BEEN Representation of countries and dates?  The names of countries and dates?	the United States" (Mail to PV Y VARIETY NAME ONLY, AS (IN O B) "no." ga D AS TO NUMBER OF 19.  ELEASED, USED, OFFERED FO I NO I all JX Sold in be furnished with application a d in a public repository and ma or tuber propagated plant varie the Plant Variety Protection A	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES TO ITEM 18, WHICH CLASSES  FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR ITEM AUGUST 1995 in the account of the duration of the certificate.  Ity, and believe(s) that the variety is new, determined.	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. X Filing and Examin 7. DOES THE APPLICANT SP. YES (If "yes," and 8. DOES THE APPLICANT SP. GENERATIONS?  [YES X 9. HAS THE VARIETY OR A II YES III "yes," give Hybrid ma.  11. The applicant(s) declare the applicable, or for a tuber processing the section 41, and is entitled to Applicant(s) is larger informed.	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED THAT SEED OF THIS VARIETY BE LIMITED NO  HYBRID PRODUCED FROM THE VARIETY BEEN REPORTED	the United States" (Mail to PV Y VARIETY NAME ONLY, AS (IN O B) "no," go D AS TO NUMBER OF 19.  ELEASED, USED, OFFERED FO I NO I all JX SOld in the furnished with application a d in a public repository and ma or tuber propagated plant varie the Plant Variety Protection A rotection and result in penalties	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES TO ITEM 18, WHICH CLASSES  FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR ITEM AUGUST 1995 in the account of the duration of the certificate.  Ity, and believe(s) that the variety is new, determined.	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. IX Filling and Examin  7. DOES THE APPLICANT SP L. YES (If "yes," and  8. DOES THE APPLICANT SP GENERATIONS? L. YES  10. HAS THE VARIETY OR A II YES (If "yes," give Hybrid machine the applicable, or for a tuber p The undersigned applicant of Section 41, and is entitled to Applicant(s) is larged informed.	(2,500 viable untreated seeds or, for tuber propaga nation Fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED THAT SEED OF THIS VARIETY BE LIMITED NO  HYBRID PRODUCED FROM THE VARIETY BEEN REPORTED	the United States" (Mail to PV Y VARIETY NAME ONLY, AS (IN O B) "no," go D AS TO NUMBER OF 19.  ELEASED, USED, OFFERED FO I NO I all JX SOld in the furnished with application a d in a public repository and ma or tuber propagated plant varie the Plant Variety Protection A rotection and result in penalties	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES TO ITEM 18, WHICH CLASSES  FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR ITEM AUGUST 1995 in the and will be replenished upon request in accountained for the duration of the certificate.  Ity, and believe(s) that the variety is new, det.	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. X Filing and Examin  17. DOES THE APPLICANT SP  L YES (If "yes," and  18. DOES THE APPLICANT SP  GENERATIONS?  L YES  20. HAS THE VARIETY OR A  X YES (If "yes," give  Hybrid material application of the property of	12,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED IN THE VARIETY BE UNITED IN THE VARIETY BEEN REPORTED IN THE	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO BY "no," go D AS TO NUMBER OF 19. ELEASED, USED, OFFERED FO I NO I all J X Sold in be furnished with application a d in a public repository and ma or tuber propagated plant varie the Plant Variety Protection A rotection and result in penalties	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES TO ITEM 18, WHICH CLASSES  FOUNDATION REGISTER OR SALE, OR MARKETED IN THE U.S. OR ITEM AUGUST 1995 in the and will be replenished upon request in accountained for the duration of the certificate.  Ity, and believe(s) that the variety is new, det.	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. X Filing and Examin  7. DOES THE APPLICANT SP  L YES Uf "yes," and  8. DOES THE APPLICANT SP  GENERATIONS?  L YES X  20. HAS THE VARIETY OR A I  X YES III "yes," give  Hybrid mac  21. The applicant(s) declare the applicable, or for a tuber p  The undersigned applicant(s) Section 41, and is entitled to	12,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED IN THE VARIETY BE UNITED IN THE VARIETY BEEN REPORTED IN THE	the United States" (Mail to PV Y VARIETY NAME ONLY, AS A NO BY "no," go D AS TO NUMBER OF 19. ELEASED, USED, OFFERED FO I NO I all J X Sold in be furnished with application a d in a public repository and ma or tuber propagated plant varie the Plant Variety Protection A rotection and result in penalties	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES' TO ITEM 18, WHICH CLASSES  J FOUNDATION J REGISTER OR SALE, OR MARKETED IN THE U.S. OR IT  AUGUST 1995 in the and will be replenished upon request in accountained for the duration of the certificate.  Ity, and believe(s) that the variety is new, doct.  RE OF APPLICANT (Owner(s))	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be
f. Voucher Sample of g. X Filing and Examin  17. DOES THE APPLICANT SP  L YES (If "yes," and  18. DOES THE APPLICANT SP  GENERATIONS?  L YES  20. HAS THE VARIETY OR A  X YES (If "yes," give  Hybrid material application of the property of	12,500 viable untreated seeds or, for tuber propagation fee (\$2,450), made payable to "Treasurer of PECIFY THAT SEED OF THIS VARIETY BE SOLD 8 swer items 18 and 19 below)  PECIFY THAT SEED OF THIS VARIETY BE LIMITED IN THE VARIETY BE UNITED IN THE VARIETY BEEN REPORTED IN THE	the United States" (Mail to PV Y VARIETY NAME ONLY, AS (NO B) "no," go D AS TO NUMBER OF 19.  ELEASED, USED, OFFERED FO I NO I all JX SOld In the furnished with application a d in a public repository and ma or tuber propagated plant varies the Plant Variety Protection A rotection and result in penalties  SIGNATU	A CLASS OF CERTIFIED SEED? (See Section item 20)  IF YES' TO ITEM 18, WHICH CLASSES  J FOUNDATION J REGISTER OR SALE, OR MARKETED IN THE U.S. OR IT  AUGUST 1995 in the and will be replenished upon request in accountained for the duration of the certificate.  Ity, and believe(s) that the variety is new, doct.  RE OF APPLICANT (Owner(s))	OF PRODUCTION SEYOND SREEDER SEED?  ED CERTIFIED  OTHER COUNTRIES?  US A  ordance with such regulations as may be

# EXHIBIT A.

# **ORIGIN AND BREEDING HISTORY OF W88-039**

W88-039 was an F3 derived single plant selection from the cross Wheaton/3/MV F2 935-60 (Selection from a breeding population from Martonvassar, Hungary - pedigree unknown). The cross was made in 1983 and the plant selection was made in Berthoud, Colorado in 1986. The resulting F4 plant row was tested in preliminary yield trials in 1988 and 1989. W88-039 was head-rowed in 1990. Twelve head-rows were selected on the basis of phenotypic uniformity and planted as progeny plots in 1991. Four F7 progeny plots were selected and bulked on the basis of foliar disease resistance. W88-039 has been tested both as a pure-line and as a parent in hybrid combination from 1990 through 1995. These replicated trials represent a broad geographic area in the Hard Winter Wheat region.

In 1990, 48 head-rows were grown in Berthoud, Colorado. Twelve of these rows were individually harvested and grown as progeny plots in 1991. Four of these progeny plots were selected to plant an initial seed increase in 1993 due to their superior leaf rust resistance. This initial increase produced 1,300 pounds of breeder seed. In 1994, an additional 26,680 pounds of breeder seed was produced in Kress, Texas.

W88-039 has been uniform and stable since 1993. Less than 0.5% of the plants were rogued from the initial seed increase in 1993. Approximately 84% of the rogued variant plants were taller height (3 to 10 cm's), 5% were green plant color at boot stage, and 1% were awnless. Up to .8% total variant plants may be encountered in subsequent generations.

## EXHIBIT B.

## STATEMENT OF DISTINCTNESS

W88-039 is most similar to the hard red winter wheat 'Thunderbird'. However it can be distinguished by the following morphological characteristics:

W88-039 has a blue-green plant color (Royal Horticultural Society color fan #124-A) at boot stage (Berthoud, Colorado 1993, 1994 and 1995). Thunderbird has a green plant color (Royal Horticultural Society color fan #137-A) at boot stage (Berthoud, Colorado 1993, 1994 and 1995).

W88-039 has an apiculate shoulder shape in the glume (Berthoud, Colorado 1993, 1994 and 1995). Thunderbird has an oblique shoulder shape (Berthoud, Colorado 1993, 1994 and 1995).

W88-039 has an elliptical seed shape (Berthoud, Colorado 1993, 1994 and 1995). Thunderbird has an ovate seed shape (Berthoud, Colorado 1993, 1994 and 1995).

### U.S DEPARTMENT OFAGRICULTURE AGRICULTURAL MARKETING SERVICE COMMODITIES SCIENTIFIC SUPPORT DIVISION BELTSVILLE, MARYLAND 20705

# OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse.  WHEAT (Indicum Spp.)		
NAME OF APPLICANT(S)	FOR OFFI	CIAL USE ONLY
Agripro Seeds, Inc.	PVPO NUMBER	9600087
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)  6700 Antioch	VARIETY NAME OF DESIGNATION	
P.O. Box 2962 Shawnee Mission Kansas 66201-1362	W88-039	- 1
Place the appropriate number that describes the varietal character of this variety in the l Place a zero in the first box (e.g. or ) when number is either 99 or less or	ooxes below. r 9 or less.	
1. KIND:  1 = COMMON 2 = DURUM 3 = CLUB 4 = OTHER (SPECIFY)		
2. VERNALIZATION:		
2 1 = SPRING 2 = WINTER 3 = 0THER (SPECIFY)		· · · · · · · · · · · · · · · · · · ·
3. COLEOPTILE ANTHOCYANIN:		
1 1 = ABSENT 2 = PRESENT		
4. JUVENILE PLANT GROWTH:		•
2 1=PROSTRATE 2=SEMI-ERECT 3=ERECT	en en el Maria en	a ta esta e a caractería de esta esta en esta e
5. PLANT COLOR (boot stage):		
1 = YELLOW-GREEN 2 = GREEN 3 = BLUE-GREEN		-
5. FLAG LEAF (boot stage):  1		
2 1 = NOT TWISTED 2 = TWISTED		
. EAR EMERGENCE:		
0 2 NUMBER OF DAYS EARLIER THAN Thunderbird		<b>*</b>
NUMBER OF DAYS LATER THAN		<u> </u>
. ANTHER COLOR:	· · · · · · · · · · · · · · · · · · ·	
1 = YELLOW 2 = PURPLE :	; ·	
PLANT HEIGHT (from soil to top of head, excluding awns)  eqal in height to Wickers		;
8 4 eqai in height to Victory		*
cm. SHORTER THAN		*

<sup>\*</sup> Relative to a PVP-approved commercial variety grown in the same trial.

1 = NARROW (ca. 3mm) 2 = MEDIUM (ca. 3.5mm) 3 = WIDE (ca. 4mm)

5

(Res. genes) \_

(Res. genes)

OTHER.

OTHER (specify) \_\_\_\_

# EXHIBIT D.

# **ADDITIONAL DESCRIPTION OF W88-039**

W88-039 is a hard red winter wheat bred and developed by Agripro Seeds, Inc. for use as a parent in hybrid combination. See Exhibit F. for agronomic and disease characterization and documentation.

Juvenile growth habit is semi-erect. Plant color at boot stage is blue-green. Flag leaf at boot stage is erect and twisted. Auricle anthocyanin and auricle hairs are present. Head shape is tapering, middense, and awned. Plant color at maturity is white. Glumes are glabrous, medium in length and narrow in width with long acuminate beaks. Shoulder shape on the glume is apiculate. Seed shape is elliptical with rounded cheeks and medium brush length. Seed crease is shallow in depth and narrow in width.

# EXHIBIT F.

# QUALITY AND AGRONOMIC DATA

Quality data	٠.	•	•	•	•	•	 •	٠	٠	•	•	•	•	•	page	1
Agronomic data					-										page	2

AGRIPRO WHEAT HARD RED WINTER WHEAT W88-039

YEAR: 1995

	<u>re</u>	. 1	l cā		1		1
	٤		R,a		×		
:	OVER	~	888	84	39	41	
	]] [	~	222	3.0	888	2.3	
ŢŢ	CRUMB	~	naa	3.7	262	2.3	
		اظ	450	4.7	64.60	3.3	
		×	∩w4	4.0	, mon	4.7	
BAKTING QUALITY	LOAF	<b>්</b> ස	1030	1080	1110 940 980	1010	
SAKTIN		24	£ ₩	3.0	m <del></del> m	2.3	
<del></del>	XIX EME	iii	4.50 5.00	4.50	4.50 4.50	4.33	
		æ	426	3.0	വലവ	4.3	
	ABS	3%	62.0 62.0 61.0	61.7	61.0 61.0 59.0	60.3	
		=	944	4.7	23.11	2.0	
	AM TOL	E	039 1023 1462 1436	1307	1815 1555 1677	1682	
	MTXOGRAM PK HT	N.U.	W88-039 5.0 10 5.0 14 4.5 14	4.8	HAWK 4.7 5.3 4.5	4.8	
	発音	nii ni	4.50 5.00	4.50	4.50 4.50 4.50	4.33	
MLTIY	ASH		999	<b>89</b>	8.88	8	
AT O		~	ഗന ശ.	4.7	414	3.0	
FLOUR/WHEAT QUALITY	FIR	%	59.4 67.8 65.2	64.1	60.8 69.8 67.1	62.9	
E	NHRD		8 67 83	8	86 73 74	æ	
		æ	9 11 19	4.0	ଦଦଦ	5.7	Ļ
	FIR	14%nb	13.2 12.0 11.4	12.2	13.1 11.4 10.4	11.6	
	WHI	14%mb	14.4 13.7 12.8	13.6	14.5 12.5 12.1	13.0	
	YEAR-10C		88-5K 89-ci 89-N0	AVIRACE	88-5K 89-61 89-NO	AVERACE	

8-9-UNACCEPTABLE

# Agripro Seeds, Inc. Hard Winter Wheat Data Summary

	SSMV	1	r <b>6</b> 0
	/ SBMV	P	- ო
	WSMV	5	ഹ
Hessian	<b>£</b>	6	φ
Powdery	Mildew	5	~
Stem Rust	Reaction	ဗ	4
Stem	Severity	2	2
Rust	Reaction	4	7
Leaf	Severity	3	ო
Straw	Strength	4	ო
	Height	4	S
	Coleoptile	ۍ	7
	Maturity	ဖ	သ
:	Heading	_	က
	Var./Line	W88-039	Thunderbird

# Data generated in 1988;

Berthoud, CO - Yield, Test Wt. Height, Lodging Severity (straw strength), Maturity, Pollination,

Hessian fly (grnhse. screening) Powdery Mildew, Leaf Rust, Stem Rust (grnhse. screening) Salina, Ks - Yield, Test Wt.

Everest, KS - Soilborne Mosalc

# Data generated in 1989:

Berthoud, CO - Yield, Test Wt., Height, Heading Date, Stem Rust (grnhse. & field), Leaf Rust (grnhse) Nardin, OK - Yield,m Test Wt., Height, Maturity, Lodging Severity (straw strength), Leaf Rust (field) Garden City, KS - Yield, Test Wt.

Geneva, NE - Yield, Test Wt., Height

# Data generated in 1990:

Berthoud, CO - Helght, Heading, Anthesis, Coleoptile (grnhse. screening)

Dumas, TX - Growth habit, Heading

Salina, KS - Leaf Rust

Grant, NE - Sollborne

Hays, KS - WSMV (Visual screening - Dr.T.) Martin)

# Data generated in 1991:

Berthoud, CO - Heading, Pollination, Leaf Rust

Dumas, TX - Heading

Wichita, KS - Heading, Leaf Rust

Everest, KS - Soilborne, Spindle Streak

Salina, KS - Leaf Rust

Imperial, NE - Leaf Rust

Hays, KS - WSMV (Visual screening - Dr.T.J Martin).

# Data generated in 1992:

Berthoud, CO - Yield, Test Wt., Heading, Height, Pollination, Greenhouse Screenig for.

Coleoptile, Tan Spot, Powdery Mildew, and Hessian fly Salina KS - Yield, Test Wt.,

Rome, KS - Spindle Streak

Hays, KS - WSMV (Visual screening - Dr.T.J Martin).

# Data generated in 1993:

Berthoud, CO - Yield, Test Wt., Heading, Pollination, Maturity, Height

Garden City, KS - Yield, Test Wt.

Geneva, NE - Soilborne

Broken Bow, NE - Winterhardiness

Dumas, TX - Yield, Test Wt.

# Data generated in 1994:

Berthoud, CO - Yield, Test Wt., Heading, Pollination, Maturity, Height,

Leaf Rust (grenhse screening)

Garden City, KS - Yield, Test Wt., Leaf Rust

Geneva, NE - Sollborne

Broken Bow, NE - Winterhardiness

Dumas, TX - Yield, Test Wt.

Hereford, TX - Heading

Hays, KS - WSMV (Visual screening).

# Data generated in 1995:

Berthoud, CO - Yield, Test Wt., Heading, Leaf Rust, Lodge Severity,

Goodland, KS - Yield, Test Wt., Lodge Severity Powdery mildew

Beloft, KS - Yield, Test Wt., Tan Spot Salina, KS - Heading, Septoria Everest, KS - Spindle Streak

Saint John, KS - Spindle Streak

Dumas, TX - Test Wt.

Wichita, KS - Leaf Rust, Tan Spot

Note: Rankings in this table represent the average for a given trait on a -9 scale where 1 and 9 represent the extremes for the repective traits.

insect ratings

# EXHIBIT E.

# STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

The variety for which Plant Variety Protection is hereby sought was developed by Dr. John Moffatt, an employee of Agripro Seeds, Inc. By agreement between employees and Agripro Seeds, Inc., all rights to any invention, discovery, or development made by the employee while employed by Agripro Seeds, Inc., were assigned to Agripro Seeds, Inc., with no rights of any kind pertaining to W88-039 being retained by the employees.